

NEW ABSTRACT:

Please find following the new abstract:

Abstract of the Disclosure

A fuel injection system for internal combustion engines in which a high-pressure fuel source supplies fuel to a fuel injector and a pressure booster disposed between an injection valve and the high-pressure fuel source has a booster piston which separates a pressure chamber which can be connected to the high-pressure fuel source from a high-pressure chamber that acts upon a nozzle chamber of the fuel injector. The injection valve includes a nozzle needle having a first nozzle needle part and a second nozzle needle part which being triggered as a function of pressure open and close various injection cross sections of an injection nozzle.